

# THER UNITED SHAYES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**PII** International Seeds and Rutgers, The State University of New Iersey

MOCCOS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TIFLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY IS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC ENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE OF EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOUT OF THE VARIETY THEREFROM, TO THE EXTENT PROVIDED BY LANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, HARD

'Gotham'

In Jestimonn Marrest, I have hereunto set my hand and caused the seal of the Hinnt Buriety Frotection Office to be affixed at the City of Washington, D.C. this fifth day of June, in the year two thousand and eight.

Allest:

Berzu

Commissioner Plant Variety Protection Office Saricultural Marketina Service Edward T. Schafe

Sgriculture

## U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse) 1. NAME OF OWNER 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 3. VARIETY NAME DLF International Seeds and Rutgers. **IS-FL 28** Gotham TELEPHONE (include area code) FOR OFFICIAL USE ONLY 200700282 541-369-2251 PO Box 229/175 West H Street 6. FAX (include area code) Halsey, OR 97348 USA 541-929-4087 FILING DATE 7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE 9. DATE OF INCORPORATION 8. IF INCORPORATED GIVE 4/23/2007 FORM OF ORGANIZATION (corporation, partnership, association, etc.) Coporation Oregon FILING AND EXAMINATION FEES: 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Stephen W. Johnson DATE 4/23/2007 **DLF International Seeds** PO Box 229/175 West H Street Halsey, OR 97348 11. TELEPHONE (Include area code) 12. FAX (Include area code) 13. F-MAIL STEVEJ@intlseed.com 541-369-2251 541-929-4087 14. CROP KIND (Common Name) 16. FAMILY NAME (Botanical) 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) Hard Fescue Graminae YES IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR 15. GENUS AND SPECIES NAME OF CROF 17. IS THE VARIETY A FIRST GENERATION HYBRID? YES 🗸 NO Festuca breviplila CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED D. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) (Follow instructions on reverse) YES (If "yes", answer items 21 and 22 below) NO (If "no", go to item 23) 1. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO Exhibit B. Statement of Distinctness NUMBER OF CLASSES? ✓ Exhibit C. Objective Description of Variety YES Exhibit D. Additional Description of the Variety (Optional) IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED 2. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO Exhibit E. Statement of the Basis of the Owner's Ownership Exhibit F. Declaration Regarding Deposit YES Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. that tissue culture will be deposited and maintained in an approved public repository) Filling and Examination Fee (\$4,382), made payable to "Treasurer of the United ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED States" (Mail to the Plant Variety Protection Office) (If additional explanation is necessary, please use the space indicated on the reverse.) 23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED 24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT. BREEDER'S RIGHT OR PATENT)? FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? **√** YES YES **V** NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.) The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties SIGNATURE QF OWNER SIGNATURE OF OWNER

NAME (Please print or type)

CAPACITY OR TITLE

April 5, 2007

(See reverse for instructions and information collection burden state

DATE

Stephen Johnson

Director of Research

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) "Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office** 

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#200700282

#### SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

#### ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance. etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

August 31, 2006

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, Jarge print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

#### EXHIBIT A

### Origin and Breeding History of Gotham Hard Fescue

Gotham hard fescue (Festuca longifolia) is an advanced generation cultivar selected from the maternal progenies of 23 clones. Gotham was developed for improved turf performance and freedom from disease. One hundred percent of the parental germplasm in Gotham contained the Neotyphodium endophyte.

The germplasm used in the development of Gotham hard fescue were developed using a germplasm and population improvement program initiated at the New Jersey Agricultural Experiment Station in 1962. Although hard fescue originated in Europe and performs best in cool-summer climates typical of northwestern Europe and the British Isles, millions of kilograms of seed have been used in turfgrass mixtures throughout the eastern United States. The performance of common types of hard fescue has been reasonably good on moderately fertile, moderately acid, well drained soils in the cool-summer parts of New England and upstate New York, especially under conditions where light shade with adequate air circulation produce a cooling effect. In warmer regions, only a few elite plants have survived in old turfs. Many of these rare, outstanding plants have persisted and spread to produce attractive patches of turf often exceeding one meter in diameter. The origin of these plants is unknown. However, selected plants appeared to be many decades old.

An intensive germplasm collection effort was initiated by Rutgers University in 1962 to select and utilize the best plants surviving in old turfs. Many weeks were spent examining old turfs for attractive, well-adapted plants of hard fescue and other useful turfgrasses. Promising plants selected from old turfs were subjected to clonal and progeny evaluation in closely mowed turf trials and spaced-plant nurseries. Of several hundred hard fescue plants collected, only a few dozen were saved for further breeding work. These elite selections were crossed with other promising selections from the germplasm collection program or from current cycles of the breeding program. Progenies from these crosses were included in population improvement programs, which included screening in a greenhouse for improved disease resistance, in spaced-plant nurseries for increased seed yield and uniformity, and in closely mowed turf trials for improved turf performance and increased stress tolerance. Extensive screening for improved disease resistance was conducted under greenhouse conditions as well as in spaced-plant nurseries and closely mowed turf trials at North Brunswick, and Adelphia, NJ.

Each of the parental clones of Gotham were selected from progeny turf plots at the Rutgers Plant Science Research and Extension Farm at Adelphia, NJ. These progeny plots were tillered to individual plants and planted into a spaced-plant nursery in the fall of 2001. During the spring of 2002, 42 clones with uniform morphology (low growth habit, high seed yield, medium-dark green color etc.) were selected from these nurseries and moved to an isolated crossing block. Forty plants were harvested with excellent floret fertility and freedom from disease. Two plants were not harvested due to poor

floret fertility. One gram of each of the 40 lines was sent to DLF International Seeds. This seed was used to establish a 4800 plant spaced plant nursery at DLFIS' research station near Tangent, Oregon. This nursery consisted of two replications of 60 plants from each progeny family. Additionally, single plots of each progeny line were seeded in a turf trial at Adelphia, NJ in the fall of 2002.

Prior to anthesis in 2003 approximately 25% of the plants in the nursery were removed. Plants that were rogued had one or more of the following traits: coarse leaves, lighter green color, high susceptibility to leaf sport, or late maturity. All of the plants in four of the families were also removed prior to anthesis because of poor family performance in the 2002 sown Adelphia, NJ turf trial. The plants that remained in the nursery were allowed to interpollinate. Seed from each of the 36 remaining families was harvested separately. A bulk was made of the seed from 23 of the families which had exhibited the best turf quality in the 2002 Adelphia, NJ turf trial. This seed was the first breeder seed of the variety. Breeder seed of Gotham is maintained by DLF International Seeds, Halsey, Oregon.

The variety Gotham has appeared uniform and stable during multiplication from breeder generation to foundation generation and from foundation to certified generation during the years 2003-2006. Gotham has a small percentage (<0.1%) of plants that are somewhat taller and coarser than the rest of the population. The percentage of these plants appears to be stable when seed is multiplied from breeder to foundation to certified generation.

### **EXHIBIT B**

### **Statement of Distinctness**

Gotham hard fescue (Festuca longifolia) is a cool-season bunch grass developed for use in turf.

Gotham is most similar to the variety Aurora. Gotham differs from this variety in characteristics including, but not necessarily limited to the following:

- 1) Gotham has a significantly shorter mature plant height than Aurora when grown in western Oregon (42.1 cm vs. 48.2cm). (7able 2).
- 2) Gotham has a wider average flag leaf width than Aurora when grown in western Oregon (1.90 mm vs. 1.16 mm). (Table 2). (ex: 3/28/2008)

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, mantal status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE **SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY** Fine Leaved Fescues (Festuca spp.)

NAME OF APPLICANT	nutional Seed Cand	TEMPORARY OR EXPERIMENT	NTAL DESIGNATION	VARIETY NAME Gotham	
ADDRESS (Street and N	state University of New Jersey o. or RD No., City, State, Zip Code and eoi	(bt: 4/24/2008)	·	FOR OFFICIAL USE ONLY	
PO Box 2		3)		PVPO NUMBER	
	OR 97348			•	
USA				#2007002	8.2
DI CACE DE ADAL		***************************************			·
PLEASE READ AL	L INSTRUCTIONS CAREFULLY:			· · · · · · · · · · · · · · · · · · ·	
0 8 9 or 0	9). Characteristics described in	ncluding numerical measu	rements, should represent tho	ling zeroes when necessary (e.g., se that are <u>typical</u> for the variety. Mea nine plant colors; designate system u	
Describe location of	test area, conditions and number	of plants used:		·	
	comparison varieties for use belo		pecies of application variety)		
3 1 = F	. rubra spp. commutata (Chewing	s) 11 = Cascade 14 = Banner	12 = Highlight 15 = Barfalla	13 = Jamestown	
2 = F	. rubra spp. litoralis (Creeping Re	d) 21 = Dawson	22 = Starlight	23 = Merlin	
3 = F	. rubra spp. rubra (Spreading Red	24 = Pennlawn ) 31 = Boreal 34 = Ensylva	32 = Ruby	33 = Fortress	
4 = F	. ovina (Sheep)	41 = Covar			
5 = F	. Iongfolia (Hard)	51 = Durar	52 = Biljart (C-26)	53 = Scaldis	
6 = F	tenuifolia (Fine-Leaved Sheep)	61 = Panda	62 = Barok		•
7 = C	ther (Specify) F.			·	
•		····	·		
2. CYTOLOGY:					
Chro	mosome Number Plo	dy 1 = diploid	2 = tetraploid 3 = hexa	ploid 4 = octoploid	
3. ADAPTATION: (0	st 2 Southeast 2	2 = Adapted)  North Central	Pacific Northwest	Other (Specify)	
4. MATURITY: Date	e First Headed (Panicle Emergend ass:	e) Location(s) of Trail(s)	Philomath, O	regon	_
<del>-</del>	arly (Covar) 2 = Early amestown, Agram) 6 = Very		= Medium Early (Boreal, Daws	on) 4 = Medium Late (Casca	de, Ruby)
Date Head	ed May 1				

				7	FZ U U / V	U C O F	è	V	
.4	. MATURIT	Y: (continued)	<u></u> )	P.					
		Days earlier than							
		Maturity Same as Aএতিবে	Comparison Va	riety	·	•			
	02	Days later than	5 3						
5	. PLANT HE	EIGHT: (At Maturity; to Top of	Panicle; Average of 10 Tallest	Culms)			•		
	421	mm Height							
٠.	61	mm shorter than Aurosa							
		Height the same as	Comparison Val	rietv					
		mm taller than							
					· 		• .		
6		HABIT: (Mature)							
	2	1 = Erect (Ruby)	2 = Semi-erect (Highligh	nt)	3 = Prostrate (Silvana	э)			-
7.	RHIZOMES	<b>3</b> :		:			1		
		mm Length	mm Width	mm Inter	node Length				
		1 = Absent (Highlight)	2 = Weakly Creeping (D		3 = Strongly Creeping	n (Boreal)			
		4 = Very Strongly Creeping (	Fortress)	a	o odongry orooping	g (2010al)			
8.	LEAF BLA	DE:							
	4	Color: 1 = Light Green (S	tarlight) 2 = Medi	um Light Greer	ı (Highlight) - 3	3 = Medium Darl	k Green (Ruby,	Agram)	
		4 = Dark Green (Ja 7 = Other (Specify)	amestown, Manoir) 5 = Blue	green (Saphir)		6 = Graygreen (			
		Glaucosity (Sowing Year):		Present (Vendo	me)				
	2	Anthocyanin: 1 = Absent	2 = Present		_	1 = Absent	2 = Present		
	2	Margins: 1 = Smooth		Rough	i laile (Basai).	7 7 100011	2 71000111		
	$\overline{l}$	Margin folding (closure):	1 = Rolled inward (closed-Hig	Ū	2 = Elet (open James	tour Engine)			
			Very Fine (Agram, Frida)	anigni)	2 = Flat (open-James 2 = Fine (Jamestown	•	na Dawasa)		
		3 =	Medium Fine (Fortress, Ruby S	Scaldis)	4 = Medium Coarse (		iei, Dawson)		
:	033	mm Length (flag leaf)				1.			
		mm Shorter than		. Prince					
	<b>v</b>	Blade length same as	Comparison V	ariety					
		mm Longer than				•		· ·	
İ	1.90	mm Width (flag leaf)	:					* *.	
		mm Narrower than							
		Blade width same as	53 Comparison V	arietv		•			
	0.74	mm Wider than Aurora		<b>,</b>					
		,		WW.P				··.	
9.	LEAF SHEA	ATH:		. *					
	씕	Anthocyanin (seedling):	1 = Absent (Highlight)	2 = Present (Ja	amestown, Fortress, M	larga)			
	싉	Auricle Hairniess:	1 = Absent	2 = Present					
	ഥ	Margins:	1 = Open (Highlight)	2 = Closed (Ja	mestown)				

		********						
10	. PANICLE	: (Mature plant)						
	2	Shape:	1 = Narrow-tapering	2 = Ovate	3 = Oblong	4 = Other (Specify)		
	2	Туре:	1 = Open	2 = Intermedate	3 = Compact		.*	
		Orientation:	1 = Erect 42 %	2 = Nodding 58 %				
	2	Branch Pubescence:	1 = Glabrous	2 = Pubescent	-			
		Anther Color:						
	4	Glume Color	1 = Yellowish Green 5 = Reddish	2 = Green 6 = Other (Specify)	3 = Bluish Green	4 = Purplish	_	
	570	(At 50% flowering)						
	17	_	( العا					
	· 1 1	mm Shorter than	53					
		Panicle length same a	s C	omparison Variety				
		mm Longer than		-	·			•
11,	PALEA:							
	2	Hairs (On keels or margin		Absent (Banner)	2 = Short (Agram	, Scaldis, Olds)		
			3 = 1	Long (Ranier, Fortress,	Jamestown)			
12.	LEMMA;	(Mature)	e di Salaharan Salah Salaharan Salaharan					
٠.	1	Hairs:	1 = Absent (Jamestown)	2 = Sev	/eral	3 = Many (Highlight)		
	4.7	mm Lemma Length						
٠.,		mm Shorter than						
	· · · ·	Lemma length same as	53	Comparison Variety				
		mm Longer than						
	1118	1	•					
	<u> </u>	☐ mm Narrower than			•			
	013	Lemma width same	6 7	Comparison Variety				
_2		→ Hilit AAIGEL (HQH)	[ <b>2</b> ] <b>5</b> ]		. '		4,	
1:3/		Awns: 1 = A mm Awn Length	bsent 2 = F	Present				
		mm Shorter than			·			
		Awn length same as		Companies Naviete				
				Comparison Variety			i. Programa	
		mm Longer than						···
13.	SEED: (Wit	th lemma & palea)						
		Size Class (g/1000 s 1 = < .9 g (Biljart, Da 3 = 1.1 – 1.3 g (Fortr	wson)	2 = .9 – < 1.1 g (James 4 = > 1.3 g (Boreal, Gol	town, Highlight) Ifrood)			
		mm per 1000 se						
Γ		mg per 1000 se		<b>7</b> )				
		Seed Weight sa		Comparison	√ariety			
L		mg per 1000 se			-			

# #200700282

14.	DISEA	SE INSECT, AND NEMATODE REACTION: (0 = Not Tested, 1 = Susc	eptible,	2 = Resistant)
٠.		Melting-out (Drechslera poae) (Helminthosporium vagans)	0	Stripe Rust (P. striiformis)
	2	Leaf Spot (D. siccans)	0	Leaf Rust (P. poae-nemoralis)
	0	Net Blotch (D. dictyoides)	0	P. crandallii
	0	Leaf Spot (Bipolaris sorokiniana)	0	Pythium Blight (Pythium ultimum)
	0	Brown Patch (Rhizoctonia solani)	2	Red Thread (Corticuim fusciforme)
	0	Powdery Mildew (Erysiphe graminis)	2	Dollar Spot (Sclerotinia homeocarpa)
	<u></u>	Stripe Smut (Ustilago striiformis)	0	Insect
		F. Patch, Pink Snow-mold (Fusarium nivale)	0	Nematode
		Fusarium blight (F. tricinctum, F. roseum)	0	Other
	0	Gray snow mold (Typhula iotana)	0	Other
	0	Stem rust (Puccinia graminis)	0	Other

1 = Application variety is less than comparison variety

2 = Same as

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Rhizome Length	Aurora	2	Growth Habit	Aurora	ſ
Leaf Width	Scaldis	. 2	Leaf Color	Scaldis	2
Panicle Color	Aurora	2	Panicle Shape	Aurora	2
Winter Color	Scaldis	2	Cold Injury		
Shade Tolerance	scaldis	2	Heat		
Drought			Disease*		

<sup>\*</sup> Specify each disease evaluated.

16. ADDITIONAL DESCRIPTION: (Use additional sheets as required).

Describe all characteristics that cannot be adequately described in the form above in Exhibit D. Varieties used for comparison should be used as may be appropriate, such as for disease reactions. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests results. Providing such information may aid in conducting a more thorough review of the applicants claims of distinctness.

<sup>15.</sup> GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE SUBITTED VARIETY: For the following characteristics indicate the Degree of Resemblance by placing the column marked D.R. with one of the following numbers:

**Table 1.** Heading dates (as day of year) of hard fescue varieties grown near Philomath, Oregon in 2005 and 2006. The Philomath test was grown on Willamette silt loam . with a pH of 6.2. The trial consisted of three replications of each variety with 20 plants per replication. The trials was conducted using a randomized complete bloc design. Plant spacings were 1.5 feet within rows and 3 feet between rows.

NAME	2005	2006	Average
Reliant	119.5	116.3	117.9
Eureka II	120.4	118.4	119.4
Scaldis	120.1	118.9	119.5
SR 3000	123.7	120.0	121.8
Gotham	122.3	120.5	121.4
Aurora	124.2	121.6	122.9
LSD @ 0.05	1.8	1.4	

The trial consisted of three replications of each variety with 20 plants per replication. The trials was conducted using a randomized complete bloc design. Plant spacings were 1.5 feet within rows and 3 feet between rows. **Table 2.** Morphological characteristics of hard fescue varieties grown near Philomath, Oregon in 2005 and 2006. The Philomath test was grown on Willamette silt loam . with a pH of 6.2.

		Plant			Flag Leaf			Flac Leaf			Flad Leaf	٠,
		Height (cm)		+	Height (cm)		_	Length (cm)			Width (mm)	
NAME	2005	2006	Average	2005	2006	Average	2005	2006	Average	2005	2006	Average
Gotham	37.4	46.7	42.1	12.7	15.8	14.2	3.1	3.5	3.3	1.80	2.00	1.90
Eureka II	40.2	52.3	46.2	14.3	18.6	16.5	3.3	3.7	3.5	1.09	1.21	1.15
Aurora	43.1	53.3	48.2	15.2	17.0	16.1	2.7	3.0	2.9	1.13	1.20	1.16
Reliant	43.4	55.0	49.2	14.9	19.9	17.4	2.9	3.1	3.0	1.62	1.64	1.63
Scaldis	49.0	59.0	54.0	16.4	19.7	18.0	3.7	4.1	3.9	1.66	1.70	1.68
SR 3000	44.4	55.2	49.8	14.5	17.6	16.0	4.0	4.1	4.0	1.47	1.63	1.55
LSD @ 0.05	3.0	3.2		2.5	2.6		NS	NS		0.20	0.18	
						-						
		Leaf Sheath			Tiller Leaf			Tiller Leaf			Panicle	
		Length (cm)			Length (cm)		-	Width (mm)			Lenath (cm)	
NAME	2002	2006	Average	2005	2006	Average	2005	2006	Average	2005	2006	Average
Gotham	8.1	10.0	9.0	4.2	4.7	4.5	2.3	2.4	2.3	5.2	6.1	5.7
Eureka II	9.5	11.9	10.7	4.2	4.8	4.5	1.4	1.2	1.3	5.9	7.2	6.6
Aurora	8.7	7.	6.6	3.8	4.5	4.2	1.8	1,5	1.7	5.8	6.5	6.1
Reliant	10.8	12.7	11.7	4.2	4.6	4.4	2.3	2.3	2.3	5.9	7.2	6.5
Scaldis	11.0	13.4	12.2	4.3	5.2	4.8	<del>ر</del> ق	2.0	<del>(</del>	6.0	7.9	7.4
SR 3000	9.1	11.5	10.3	8.	2.1	5.0	2.3	2.3	2.3	2.5	7.1	6.4
LSD @ 0.05	1.3	1.0		1.0	0.0		0.1	0.2	:	0.8	0.7	

The trial consisted of three replications of each variety with 20 plants per replication. The trials was conducted using a randomized complete bloc design. Plant spacings were 1.5 feet in 2005 and 2006. The Philomath test was grown on Willamette silt loam with a pH of 6.2. Table 3. Seed characteristics of hard fescue varieties grown near Philomath, Oregon within rows and 3 feet between rows.

	Lemi	Lemma Length	(mm)	Lem	ma Width	(mm)	Awn	n Lenath (r	nm)
NAME	2002	2006	Average	2002	2006	Average	2005	2006	Average
Reliant	4.79	1	ı	1.03	1.07	1.05	1.75	1.78	177
Gotham	4.67	4.70	4.68	1.17 1.20	1.20	1.18	1.42	1.38	1.40
Scaldis	4.57	ı		1.03	1.07	1.05	1.60	1.75	1.68
SR 3000	4.57			1.17	1.17	1.17	1.55	1.51	1.53
Eureka II	4.47			1.03	1.03	1.03	1.10	1.25	1.17
Aurora	4.43			1.10	1.13	1.12	1.58	1.75	1.67
LSD @ 0.05	0.28	0.30		0.09	0.12		SN	NS	

MEAN TURFGRASS QUALITY RATINGS OF HARD AND SHEEP FESCUE CULTIVARS GROWN AT THREE LOCATIONS UNDER SHADE 1/ 2004 DATA TABLE 7D.

2 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

MEAN TURFGRASS QUALITY RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS
GROWN AT THREE LOCATIONS UNDER SHADE 1/
2004 DATA TABLE 7E.

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

MEAN	4 4 8 7 7 7 4 9 7 7 4 8 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.5
UT1	4 4 6 7 4 6	0.7
NE1	5.0 5.0	0.6
11.2	4 4 4 4 8 8	1.1
NAME	SEABREEZE DAWSON E SRX 55R	LSD VALUE C.V. (%)

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05). \_

C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN. 2/

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GENETIC COLOR RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/ 2004 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN

											; ;		î								
NAME		IA1 I	111	IL2	INI	Ϋ́	MA1	ME.	MN1	ND1	NE1	LCN T	NJ2	PA1	QE1	SD1	Ę.	VA1	WA3	WI1	MEAN
SPM		7.0			6.3	7.0	5.3	6.3	6.3	6.7	8.0	7.0	7.7	8.0				7 7	0.9	7.3	6.9
PREDATOR		7.3			7.0	8.0	5.3	7 3	7.3	6 3	7.0	5.0	6.7	8.7				7.3	9	6 7	9
OXFORD	i.	7.0			6 3	7.0	6.0	6.3	6 7	6.3	7.3	6.3	7.0	8.0	7.3	7.0	0.9	7.3	3	9	9
PICK HF #2		7.0			7.3	6.7	5.7	6.7	7.0	7.0	0.9	5.0	6.7	7.3				6.7	0.9	6.3	9 9
A IS-FI 28	٠	7.0			6.7	6.3	0.9	9	6 3	6.7	7.3	6.3	7.3	7.3				7.0	5.7	5.3	9.9
QUATRO					2.0	7.3	0.9	0.9	7.0	6.3	7.3	3.3	5.7	7.7				7.0	5,3	7.0	6.5
BERKSHIRE					7 0	7.0	5.3	6.7	5.7	0.9	7.7	5.3	6.7	7.0				7.3	0.9	6.0	6.5
RELIANT IV	(A01630REL)				5.7	7.0	6.0	6.7	7.0	0.9	7.3	5.7	6.7	7.0				6.7	6.7	5,3	6.4
SCALDIS					6.7	7.0	5.3	7.3	6.0	6.7	7.0	4.7	5.7	7.7				7.0	4.7	0.9	6.4
SRX 3K					6.7	7.3	5.3	6.7	6.7	6.0	6.3	3.7	6.7	6.7				7.0	5,3	6.3	6.2
SR 3000	SR 3000	7.0	0.9	5.0	5.3	7.7	5.7	7.0	2.7	6.0	0.9	4.3	ъ.	0.9				7.0	5.0	6.3	6.1
LSD VALUE		0.4				1.6	1.0	1.8	2,2	1.2		2.6	5.5				-2	0.1	2 0	1.3	0.3
C.V. (%)		3.5	9.2	24.3	13.1	13.8	1.	16.9	21.4	11.6	9.6	31.9	14.1	10.01	8.2 1	11.0	11.5	8.5	22.1	12.4	7.5

TABLE 8E.

GENETIC COLOR RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/ 2004 DATA

	MEAN	5.6	5.5	5.1	0.3	16.1
	WI1	7.0	6.7	0.9	<del>-</del>	10.2
	WA3	5.3	5.7	5.0	1.5	17.7
	VA1	6.7	5	9	1.2	12.4
	11	5.7	4.7	2.0	1.8	21.6
	SD1			2.7		
	Œ1	7.0	7.0	6.3	0.5	6.9
/2	PA1				9.0	
GREEN 2/	NU2	4.3	4.0	3,3	0.8	12.1
GENETIC COLOR RATINGS 1-9; 9=DARK					2.8	
S 1-9;	NE1	0.4	5.	8.0	0.5	2.2
RATING	ND1	7.3	6.3	5.7	£.	12.7
C COLOR	MN1					
GENETI	ME1	5.3	7.0	5.7	1.2	12.4
٠	MA1	6.0	2,7	2.2	1.2	12.9
	<b>K</b> ¥	7.7	6.3	2.7	6.0	æ.
	IN1 KY1	5.0	4 6	3.7	1 2	17.2
	IL2	2.7	3.7	2.3	2.3	49.0
	디	5.3	0.9	5,3	1,5	17.0
	IA1	<b>.</b>	7	7	0	0
					LSD VALUE	C.V. (%)

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 10D. LEAF TEXTURE RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/ 2004 DATA

	_	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE	URE RAT	INGS 1-9	ı; 9≂VERY	FINE	2/		
·:	NAME		MI1	MN1	ND1	NY1	0E1	MEAN	
	QUATRO		8.0	7.7	0.6	7.7	8.0	8.1	
	BERKSHIRE		7.7	8	0.6	7.7	7.0	7.9	
Ø	IS-FL 28		8.0	8.0	0.6	7.3	7.0	7.9	
	PICK HF #2		7.7	8.0	9.0	7 3	7.0	7.8	
	RELIANT IV	(A01630REL)	8.0	8.0	8.7	7 3	7.0	7.8	
	OXFORD		7.3	8.0	9.0	7.3	7.0	7.7	
	SRX 3K		7.3	7.7	0,6	7.7	6.7	7.7	
	SCALDIS		8.0	7.0	0.6	7.3	7.0	7.7	
٠.	SPM		7.3	8.0	0.6	7.0	7.0	7.7	
	SR 3000		7.3	8	0.6	7.0	7.0	7.7	
	PREDATOR		7.3	6.7	0.6	7.7	7.0	7.5	
	LSD VALUE	:	0.7	4	e. 0	8.0	0	0.4	
	C.V. (%)		6.0	11.2	6.	7 1	2	9	

 TABLE 10E.
 LEAF TEXTURE RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/

 2004 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

8.0	7.7	7.5	0.4	7.0
7.7	7.7	7.0	0.8	6.3
7.7	7.3	7 0	0.8	6.4
0.6	0.6	8.7	0.5	3.8
8.0	6.7	7.7	<b>4</b>	10.0
7.7	7.7	7.3	6.0	7.6
SRX 55R	SEABREEZE	DAWSON E	LSD VALUE	C.V. (%)
	7.7 7.7 9.0 9.0 7.7	7.7 8.0 9.0 7.7 7.7 7.7 6.7 9.0 7.3 7.7	ZE 7.7 8.0 9.0 7.7 E 7.3 6.7 9.0 7.3 E 7.3 7.7 8.7 7.0	7.7 8.0 9.0 7.7 7.7 7.7 7.7 7.7 7.7 7.7 6.7 9.0 7.3 7.7 7.0 7.0 0.9 1.2 0.5 0.8 0.8

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN. 2/

TABLE 18D. WINTER COLOR RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/ 2004 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME		K <del>Y</del> 1	VA1	MEAN
QUATRO		8.7	8	8
PICK HF #2		8	7.7	8.0
PREDATOR		7.7	7.7	7.7
SCALDIS		6.7	8.0	7 3
SPM		6.7	8.0	7.3
RELIANT IV	(A01630REL)	7.3	7.3	7.3
BERKSHIRE	•	7.0	6.7	8
IS-FL 28		0.9	7.7	6.8
SRX 3K		6.3	7.3	6.8
SR 3000		6.7	6.3	6.5
XFORD		5.7	7.0	6.3
SD VALUE		1.3	1.0	0.8
C.V. (%)		4 11	8	10.0

TABLE 18E. WINTER COLOR RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/ 2004 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

	•	
MEAN	5.7 4.8 4.5	0.6
VA1	6.3 5.0	12.2
₹	5.0 4.7 4.0	0.5
NAME	SRX 55R SEABREEZE DAWSON E	LSD VALUE C.V. (%)

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN, 5/

TABLE 20D. LEAF SPOT RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/2004 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

MEAN	8 0	7.8	7.5	7.3	7.2	7 0	8.9	6.8	6.2	5.8		1.0	0
NJ2	7.3	7.0	6.3	5 7	2.7	0.9	5.7	6.3	5.7	3.7	4.0	6	0
ME1	8.7	8.7	8.7	0 6	8.7	8.0	8.0	7.3	6.7	8.0	7.0	1.6	7 01
						(A01630REL)				-			
NAME	PICK HF #2	SPM	IS-FL 28	BERKSHIRE	SRX 3K	RELIANT IV	OXFORD	PREDATOR	SR 3000	QUATRO	SCALDIS	LSD VALUE	C. V.
	·. ·.	*	X.										

TABLE 20E. LEAF SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/ 2004 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

MEAN	6.8 5.7 4.5	23.5
NJ2	പ പ പ	0 9
ME1	7.3 6.0 3.7	2.9
NAME	SRX 55R SEABREEZE DAWSON E	LSD VALUE C.V. (%)

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05). \_

G.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN. 5

TABLE 22D, DOLLAR SPOT RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/ 2005 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

٠.	NAME	MA1	PA1	MEAN	
	RELIANT IV (A01630REL)	8.0	0.6	8	
	QUATRO	8.3	8	8	
	SPARTAN II (PICK HF #2)	8	8	8	
	BERKSHIRE	8.0	8	8 2	
	SPM	8	8	8	
X	GOTHAM (IS-EL 28)	7 7	8	8.0	
		7.7	8.0	7.8	
	OXFORD	7.0	8.7	7.8	
	SRX 3K	6.7	8	7.5	
	SCALDIS	9	8	7 3	
	SR 3000	6.3	8 0	7 2	
	LSD VALUE	4.	4.1	1.4	
	(%) // 3	· c		- LI	

TABLE 22E. DOLLAR SPOT RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/ 2005 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

MEAN	6.5 5.5	1.1
PA1	6.3 3.3	1.3
MA1	6.7 5.3 6.0	1.8
NAME	SEABREEZE SRX 55R DAWSON E	LSD VALUE C.V. (%)
	1000	

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN. 5

TABLE 22D. RED THREAD RATINGS OF HARD AND SHEEP FESCUE CULTIVARS 1/ 2004 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME SRX 3K PREDATOR	ME1 9.0 8.3	PA1 9.0	WA3 5.0 5.7	9.0	MEAN 8.0 7.9
OXFORD SPM X IS-FL 28.	8.3	8 8 8 0 8	6.0	000	7.9
RELIANT IV (A01630REL) PICK HF #2	8 O	7.3	9 9 9	0.6	7.7
BERKSHINE SR 3000 SCALDIS	8.7 7.7 8.0	တတ္တ	4 G 4 7 E E	9.0 9.0 7.8	7.6 7.6 7.3
QUATRO LSD VALUE	7.3	7.7	4 <del>-</del>	9.0	7.1
C.V. (%)	7.0	7.7	21.7	8.8	9.2

TABLE 22E. RED THREAD RATINGS OF SLENDER CREEPING RED FESCUE CULTIVARS 1/ 2004 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

		<b></b>	_	
MEAN	6.4	6.3	1.0	6
WI I	ස ද	7.3	2,4	18.9
WA3	4.3	200	1.7	22.1
PA1	e .	5.3	9 -	16.4
ME1	6.7	6.7	2.1	20.4
NAME	SEABREEZE	SRX 55R	LSD VALUE	C.V. (%)
			٠.	

TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05). 7

C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN. 5

REPRODUCE LC	CALLY. Include form number a	and edition date on all reproduct	ions.	FORM APPROVED	) - OMB No. 0581-0055
AG	S. DEPARTMENT OF AGRICU RICULTURAL MARKETING SI EXHIBIT E ENT OF THE BASIS OF	ERVICE Applica certifica confide	tion is required in order to detect to the test of the isto be issued (7 U.S.C. notial until the certificate is is:	2421). The informat	ion is held
1. NAME OF AP	PLICANT(S)	2. TEM	PORARY DESIGNATION EXPERIMENTAL NUMBER	3. VARIETY NA	ME
t:469'08) University	onal Seeds and Rutgers, of New Tersey	Ine State Is-FL	28	Gotham	
4. ADDRESS is	treet and No., or R.F.D. No., City, State, a	and ZIP, and Country) 5. TELE	PHONE (Include area code)	6. FAX (Include are	ea code)
	75 West H Street	(54)	1) 369-2251	(541) 929-4087	7
Halsey, OR 97 USA	348	7. PVP0	NUMBER		· ·
			#20	07002	282
8. Does the appl	icant own all rights to the varie	ty? Mark an "X" in the appropri	ate block. <b>If no, please ex</b> p	olain.	YES NO
				- Econolis	#recini
	•				·
				ř	
9. Is the applicar	it (individual or company) a U.S	S. national or a U.S. based com	pany? If no, give name of	country.	YES NO
10. Is the applica	ant the original owner?	YES NO	If no, please answer on	e of the following:	
707 70 tilo appliot	and the original owner.	4 '° L''`	ii iio, piease aliswer <u>s</u>	<u></u> 0. <b>0</b> 0 .00	
a. If the origi	nal rights to variety were owne	d by individual(s), is (are) the or	riginal owner(s) a U.S. National fino, give name of cou		
b. If the orig	inal rights to variety were owne	ed by a company(ies), is (are) the YES NO	e original owner(s) a U.S. b If no, give name of cour		
11. Additional ex	planation on ownership (Trace	ownership from original breede	r to current owner. Use the	reverse for extra sp	ace if needed):
				· .	
				4.	
	•				
		•			
				•	•
PLEASE NOTE:					
Plant variety prote	ection can only be afforded to	the owners (not licensees) who	meet the following criteria:		
		•			
1. If the rights to t national of a co	he variety are owned by the or ountry which affords similar pro	riginal breeder, that person mus stection to nationals of the U.S.	i be a U.S. national, national for the same genus and spe	al of a UPOV membe ecies.	er country, or
If the rights to the nationals of a Lingenus and specific periods.	JPOV member country, or own	ompany which employed the ori ned by nationals of a country wh	ginal breeder(s), the compa ich affords similar protection	iny must be U.S. bas n to nationals of the	sed, owned by U.S. for the same
3. If the applicant	is an owner who is not the orig	ginal owner, both the original ow	ner and the applicant must	meet one of the abo	ove criteria.
The original breed Act for definitions	der/owner may be the individua	al or company who directed the	final breeding. See Section	1 41(a)(2) of the Plar	nt Variety Protection
According to the Pagen	work Reduction Act of 1995, an agency i	may not conduct or sponsor, and a person	is not required to respond to a collec	ction of information unless	it displays a valid OMR

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is ossimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Fights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

**EXHIBIT F DECLARATION REGARDING DEPOSIT** 

DESCRICTION REGARDING DEPOSIT	
ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
PO Box 229/175 West H Street	IS-FL 28
Halsey, OR 97348	VARIETY NAME
USA	Gotham
ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
PO Box 229/175 West H Street Halsey, OR 97348 USA	#200700282
	PO Box 229/175 West H Street Halsey, OR 97348 USA  ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) PO Box 229/175 West H Street Halsey, OR 97348

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

explica is Johnson